

**State of California**  
Department of Food and Agriculture  
Division of Measurement Standards

Certificate Number: 5100(b)-03  
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***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing and Measuring Devices***

**For:**

Water Meter  
Positive Displacement  
Model: C-700 Series  
Size: See Table Below  
Maximum Flow Rate: See Table Below  
Minimum Flow Rate: See Table Below

**Submitted by:**

AMCO Water Metering Systems  
1100 S.W. 38<sup>th</sup> Avenue  
Ocala, FL 34474  
Tel: (800) 874-0890  
Fax: (352) 368-1950  
Contact: Matt White

**Standard Features and Options**

Unit of measure: Gallons or cubic feet  
Magnetic drive  
Electronic pulse output (not evaluated)\*

Bronze main case  
External threaded spuds

**Meter Description:**

Model	Description	Flow Rate (gpm)
C-700	5/8" x 1/2" Bronze and Polymer Case	1/4 - 25
	5/8" x 3/4" Bronze and Polymer Case	1/4 - 25
	3/4" x 3/4" Bronze and Polymer Case	1/2 - 30
	1" Bronze Case	3/4 - 50


\* **Register Model:**      Inside R  
                                 Digital              B Pulser  
                                 Scancoder          RS Pulser

**NOTE:** Approved for use when installed in a "**HORIZONTAL**" or "**VERTICAL**" position according to the manufacturer's instructions only.

These devices are to be installed where they are protected from excessive heat and freezing conditions.

These devices were evaluated under the California Type Evaluation Program (CTEP) and were found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: May 23, 2003

  
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Mike Cleary, Director

**AMCO Water Metering Systems  
Water Meter, Positive Displacement  
Model: C-700 Series**

**Application:** Approved for use as a domestic cold-water meter only when installed in a “**HORIZONTAL**” or “**VERTICAL**” position. The flow direction indications are cast into the single pipe connector, main case.

**NOTE:** Written installation instructions shall be included with each meter. Additionally, field installations should be verified according to the manufacturer’s installation requirements.

**Identification:** The manufacturer’s name and model designation are silk-screened on the register indicating face on both meter types. The serial number prefaced with “S/N” is engraved on the outlet of the meter body on both meters. The model number on the Bronze meter is prefaced with “Mod” scribed on the inlet of the meter body. The model number on the Polymer meter is prefaced with “Model” raised molded lettering on the side meter.

**Sealing:** On both meter types the water meter can be sealed with a security seal threaded tightly through the hinge pin hole in polymer clamp on the measuring chamber. Additionally, on Bronze meter only, the bottom frost protection plate can be sealed with a wire security seal threaded through a hole in the bottom bolts.

**Operation:** The Model C-700 is a revolving piston style, positive displacement water meter. The water meter utilizes a revolving piston which is rotated by the water in a measuring chamber. Each disk revolution is the equivalent of a known volume of water. The disk movement is transferred by a magnetic drive to a straight reading sealed register.

**Test Conditions:** This Certificate was issued to change the name of the company from ABB Water Meters, Inc. to AMCO Water Metering Systems. The AMCO Model C-700 was evaluated on the marking requirements and the provisions for sealing. Evaluation of the device design, performance, and installation requirements is based on previous testing conducted. Testing was conducted on the previous two certificates and listed below for reference.

**Certificate of Approval Number 5100(a)-01:** The Model C-700 InsideR in gallon units, C-700 Scancoder in cubic feet units, and C-700 RS pulser in gallon units were submitted for evaluation. The emphasis of the examination was on device design, operation, marking requirements, and performance. Three tests each at 15 gpm, 3 gpm, and 1/4 gpm were conducted on the register designs listed.

**Certificate of Approval Number 5100-00:** This Certificate was issued to change the name of the company from Kent to ABB Water Meters, Inc. The ABB Model C-700 was evaluated on the marking requirements and the provision for sealing. Evaluation of the device design, performance, and installation requirements is based on previous testing conducted for Certificate of Approval Number 2148-82.

The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2003 Edition

**Tested By:** J. Raspino, D. Reiswig

**Updated By:** J. Roach

**AMCO Water Metering Systems  
Water Meter, Positive Displacement  
Model: C-700 Series**



Polymer Meter Sealing Provisions

Bronze Meter Sealing Provisions



Bronze Meter Bottom  
Plate Sealing Provisions

Model number "MOD C-700"  
location on Bronze meter

